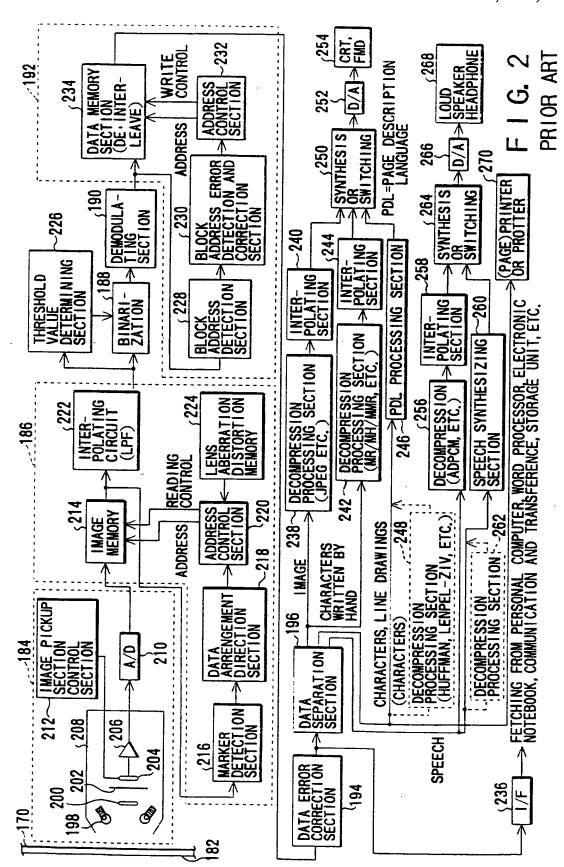


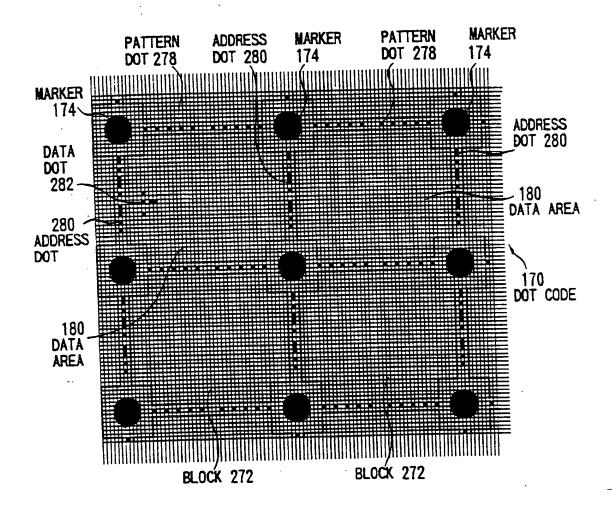
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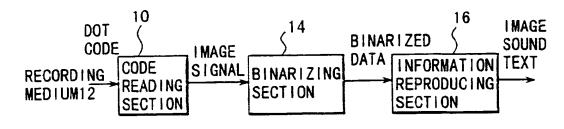
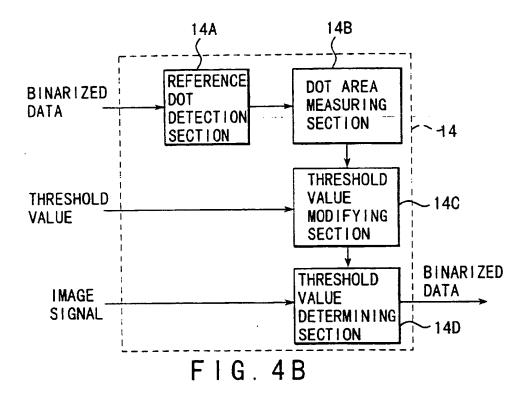
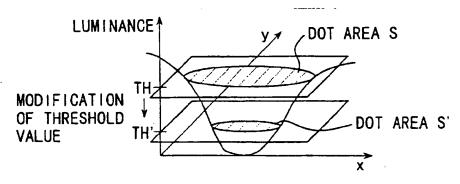
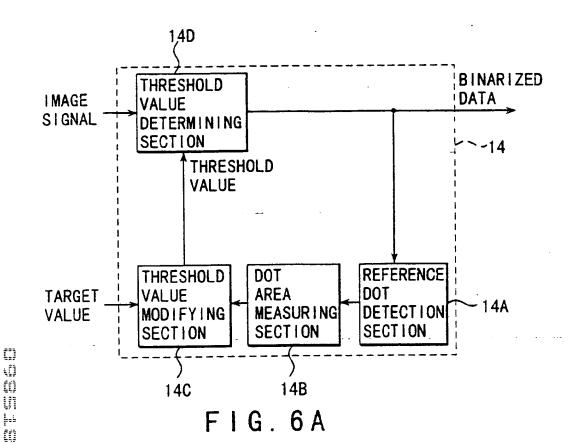


FIG. 4A





F1G. 5



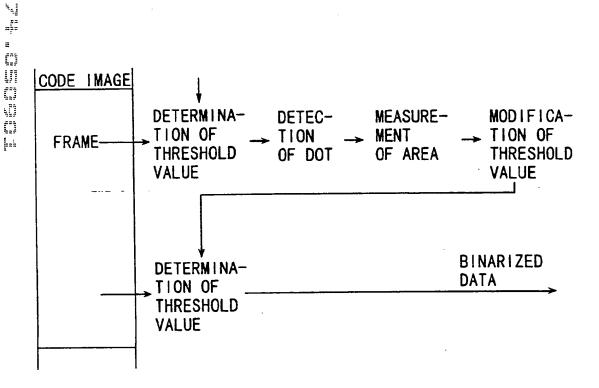
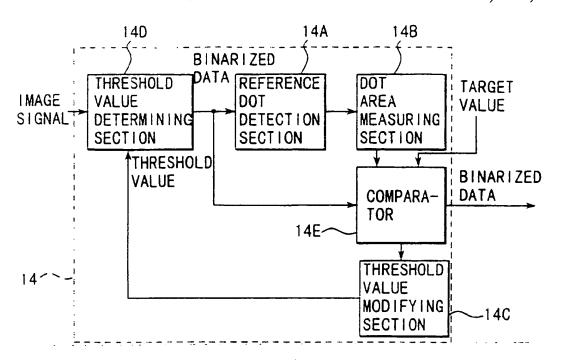
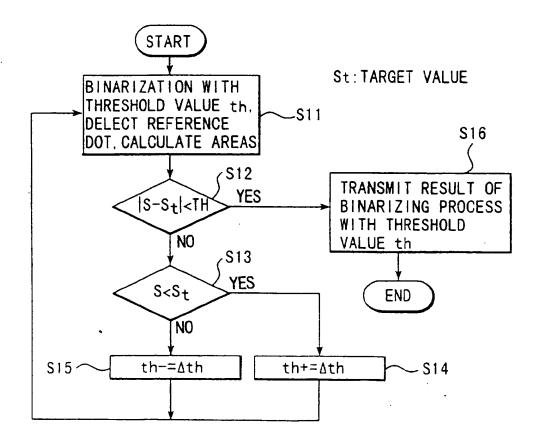


FIG. 6B





F1G. 7



F I G. 8

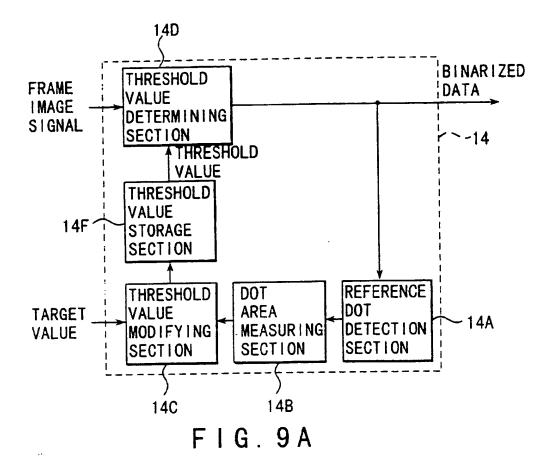
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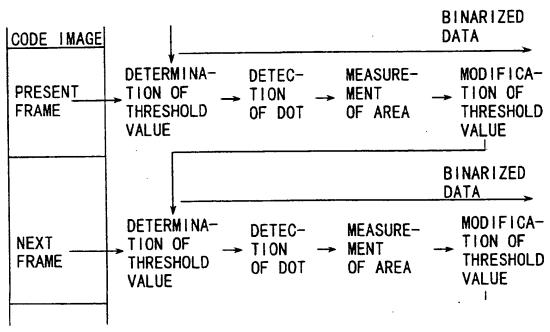
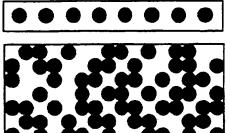


FIG. 9B

REFERENCE DOT 18

FIG. 10A

-REFERENCE DOT 18



F I G. 10B

DATA CODE DATA DOT 282

F I G. 11A

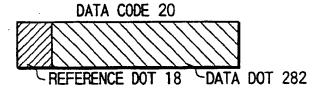
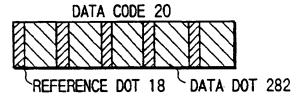
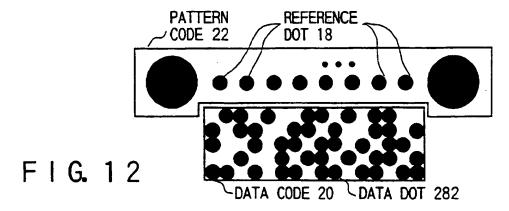


FIG. 11B





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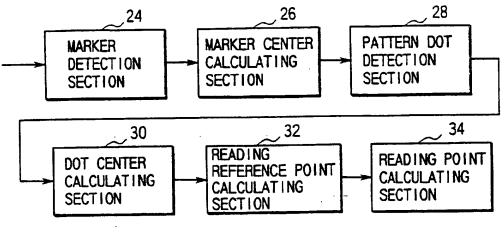
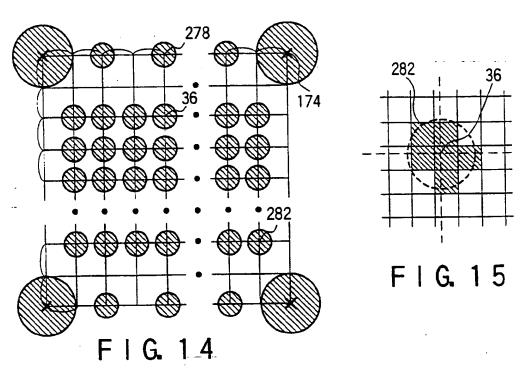


FIG. 13



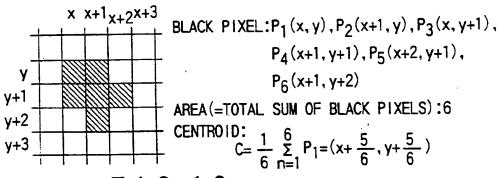


FIG. 16

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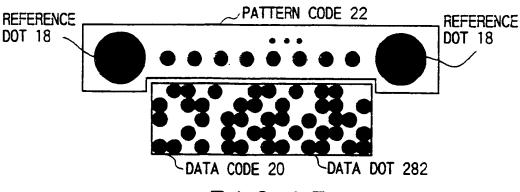


FIG. 17

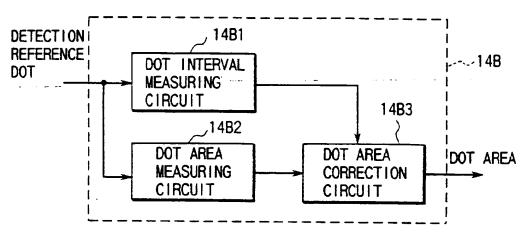
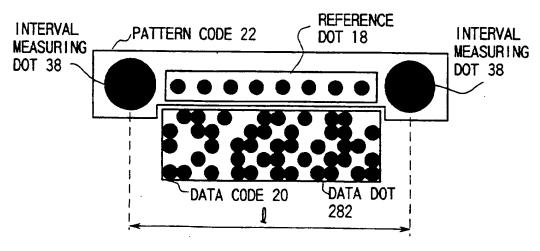
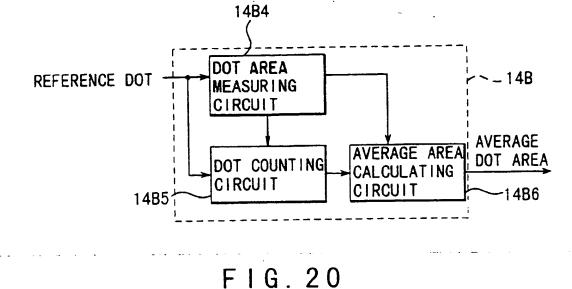


FIG. 18



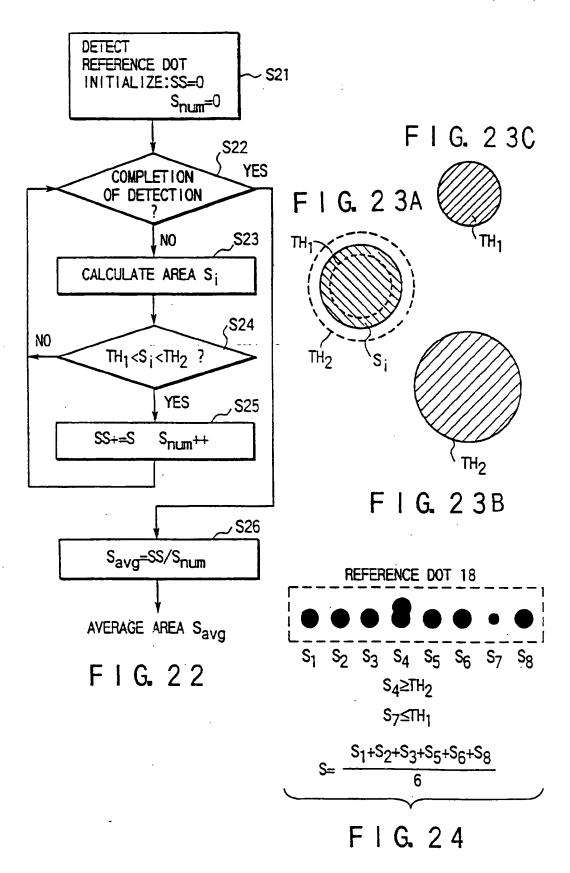
 $s' = (\frac{1}{L})^2 s$  S:AREA BEFORE CORRECTION 1:DOT INTERVAL S':AREA AFTER CORRECTION L:REFERENCE DOT INTERVAL F | G. 19



14B7 14B4 DOT AREA MEASURING DOT REFERENCE - 14B SELECTION DOT CIRCUIT SECTION **AVERAGE** DOT AVERAGE AREA DOT AREA CALCULATING COUNTING CIRCUIT CIRCUIT 14B51 -14B6

FIG. 21





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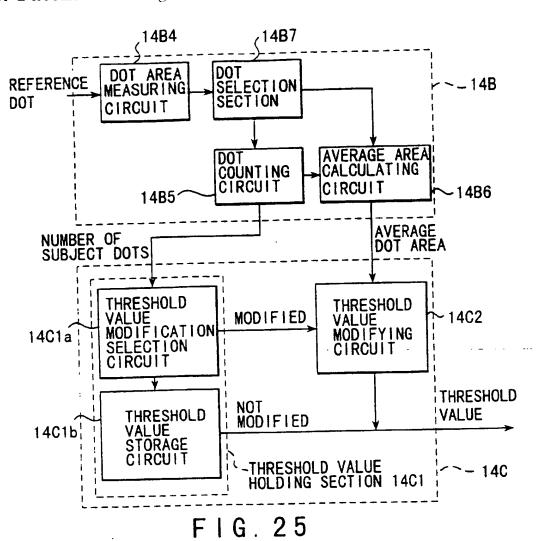
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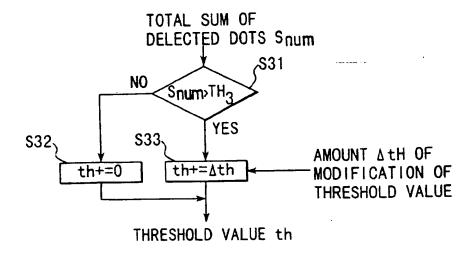
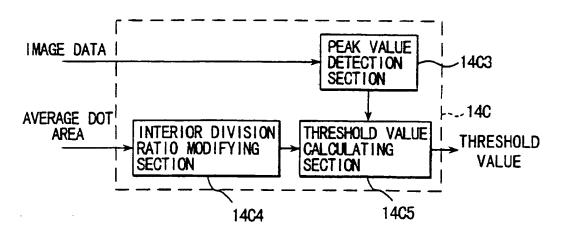


FIG. 26



Aug. 24, 1999

FIG. 27

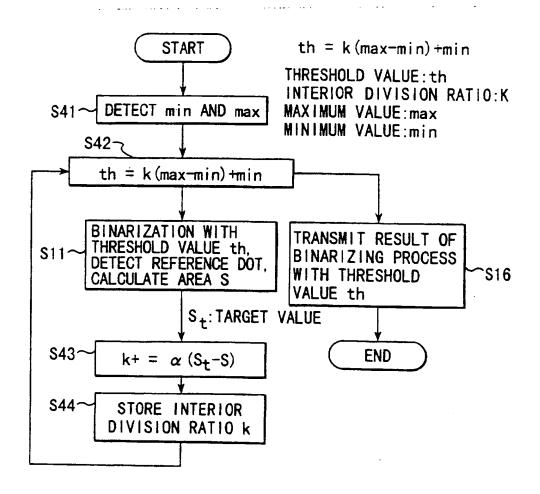


FIG. 28

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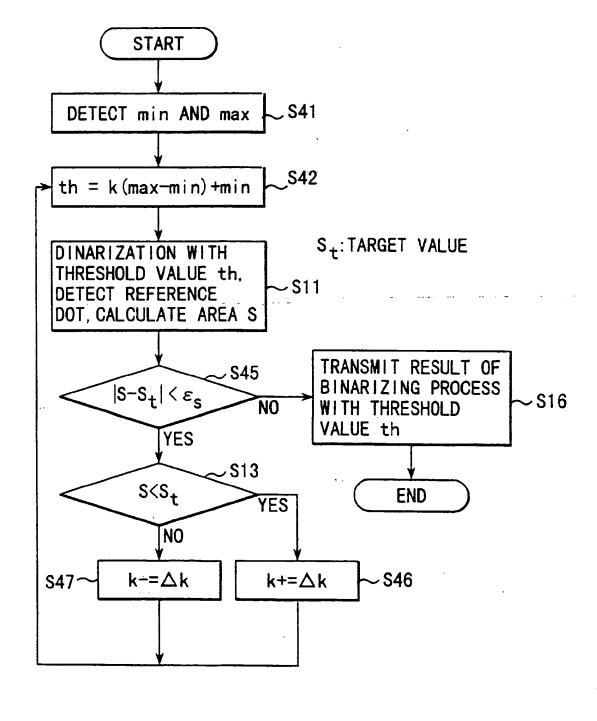


FIG. 29

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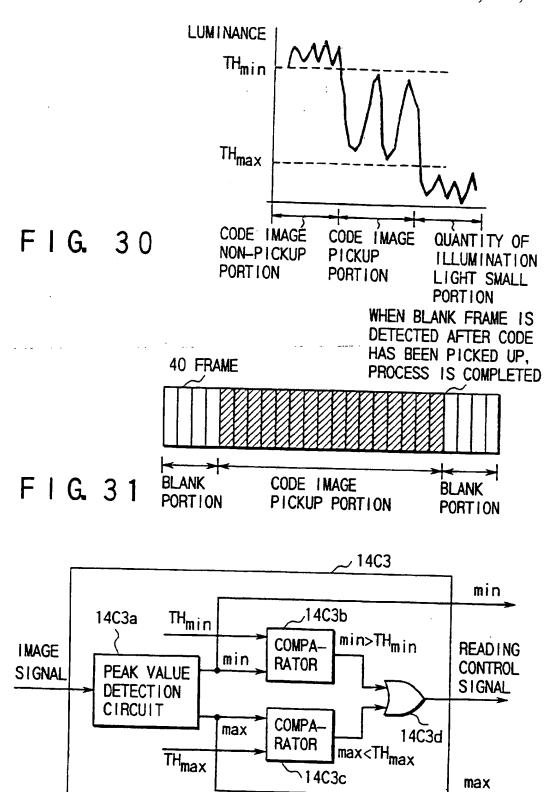


FIG. 32

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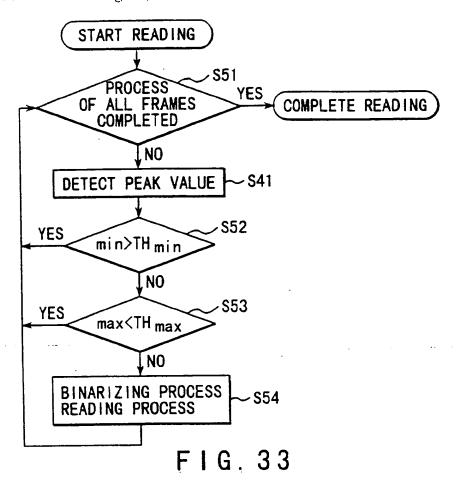
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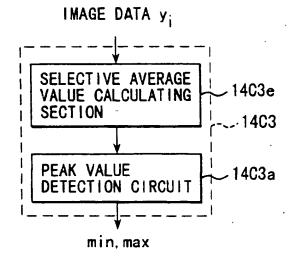


FIG. 34

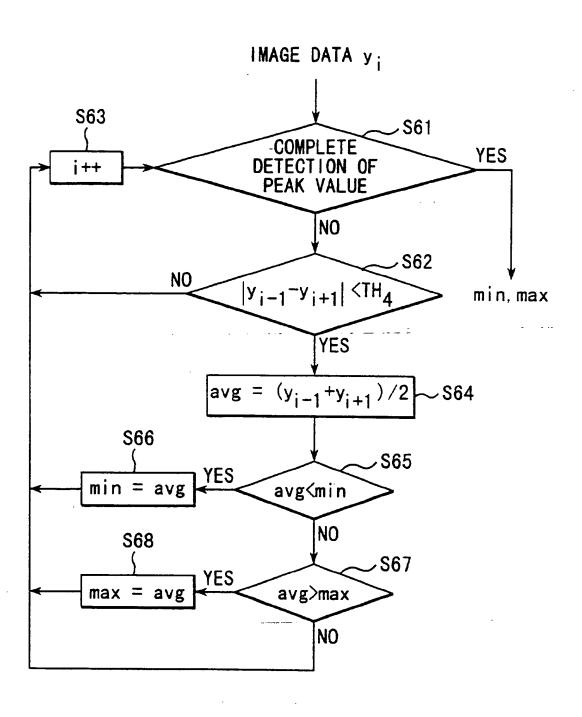
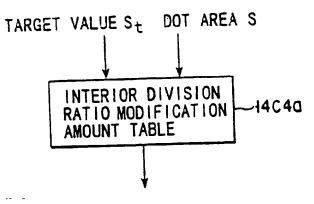


FIG. 35

(I)

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AMOUNT Ak OF MODIFICATION OF INTERIOR DIVISION RATIO

FIG. 36A

## INTERIOR DIVISION RATIO MODIFICATION AMOUNT TABLE 14C40

					1	1
S+ 5	6.0				8. 0	
6. 0		-0.06	<del>-</del> 0. 13	-0. 20	-0. 28	-0. 37
6.5	0. 05		-0.07	-0.14	-0. 21	-0. 29
7.0		0.06		-0.08	-0. 15	-0. 22
7.5		0. 12	0.07		-0.09	-0.16
8.0		0. 18	T			-0.10
8. 5					0.09	

IF MEASURED DOT AREA IS 7.0 AND TARGET VALUE IS 8.0, THE AMOUNT OF MODIFICATION OF INFERIOR DIVISION RATIO IS  $\triangle k = 0.13$  IN ACCORDANCE WITH THE TABLE

FIG. 36B

And that the and added

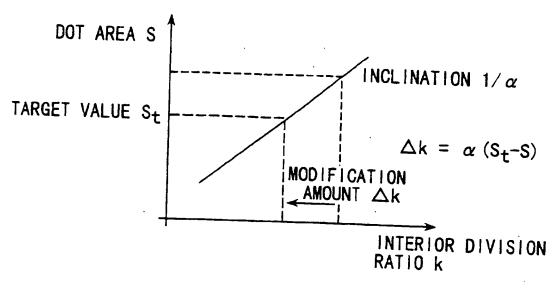


FIG. 37

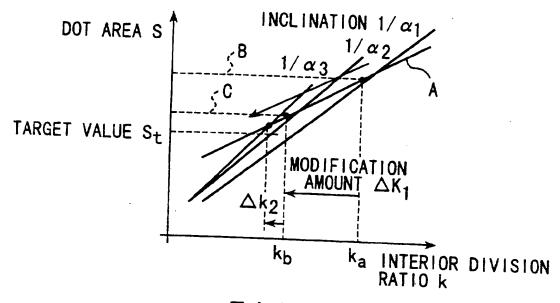


FIG. 38

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NUMBER OF REFERENCE DOTS Snum TOTAL AREA OF REFERENCE DOTS SS

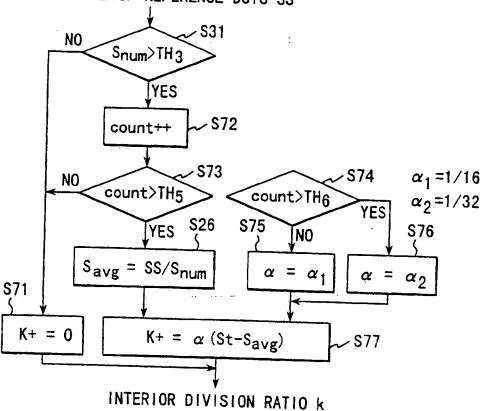
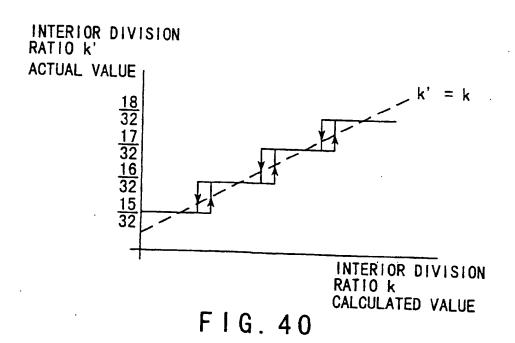


FIG. 39



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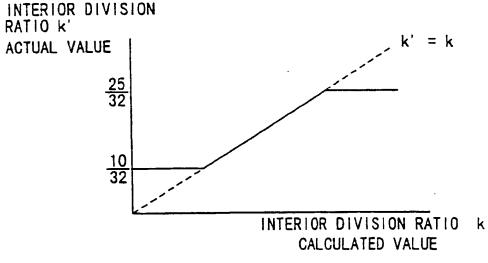
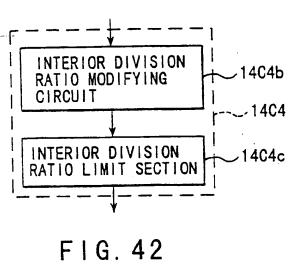


FIG. 41



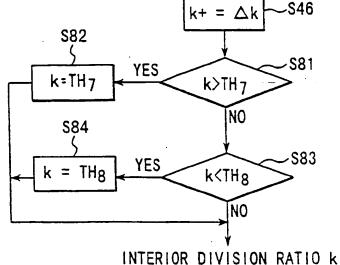


FIG. 43

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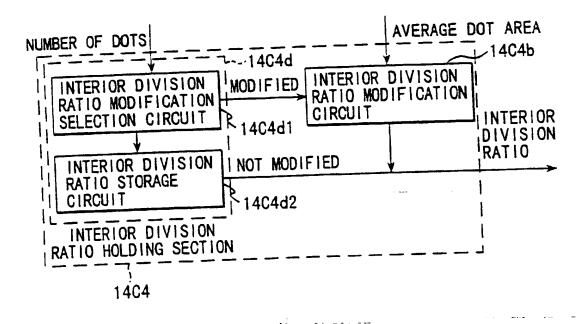


FIG. 44

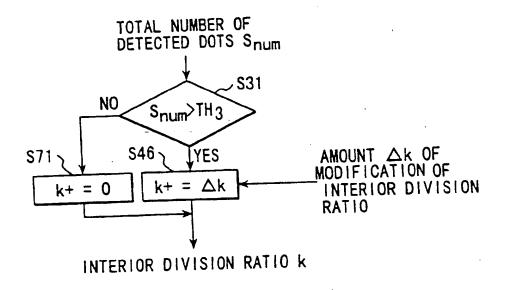
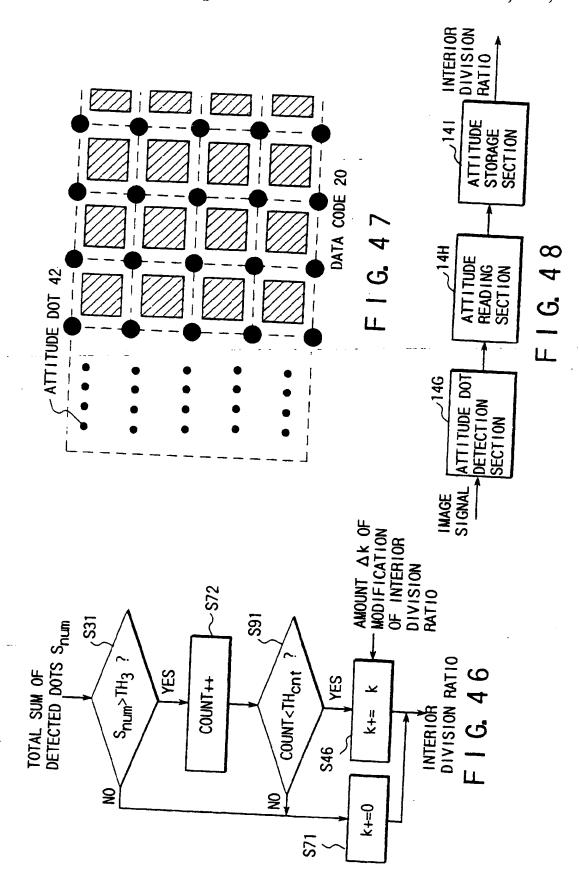


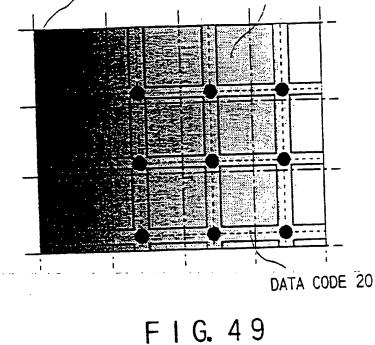
FIG. 45

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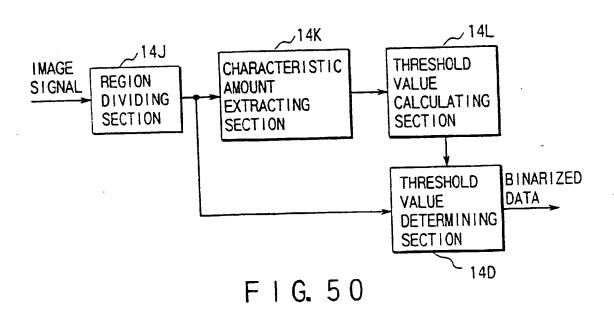


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REGION 44



FRAME 40



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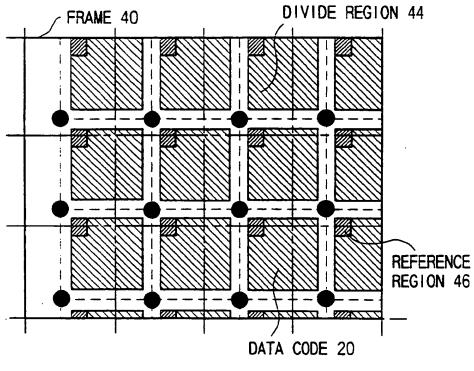
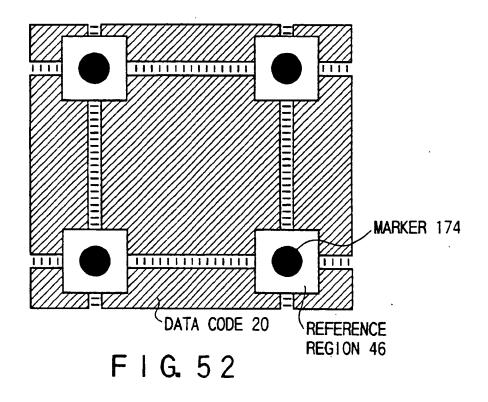
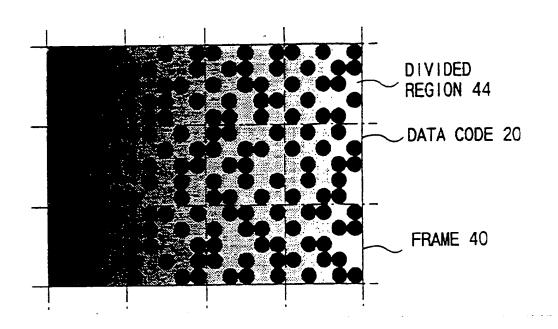


FIG. 51







F I G. 53A

max=180 th=90	max=190 th=95	-	max=210 th=105	
1	max=193 th=92	max=205 th=103	1	
max=178 th=89	max=187 th=94	max=198 th=99	max=207 th=104	

FIG. 53B

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FIG. 54B

WHEN INTERIOR DIVISION RATIO k=0.5 AND MINIMUM VALUE fr\_min OF OVERALL PORTION OF PREVIOUS FRAME IS 20

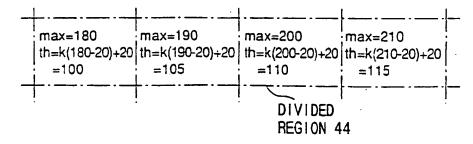


FIG. 55

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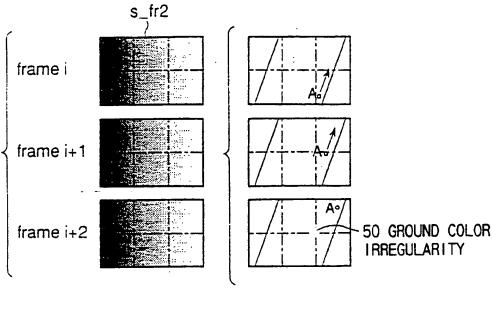


FIG. 56A

FIG. 56B

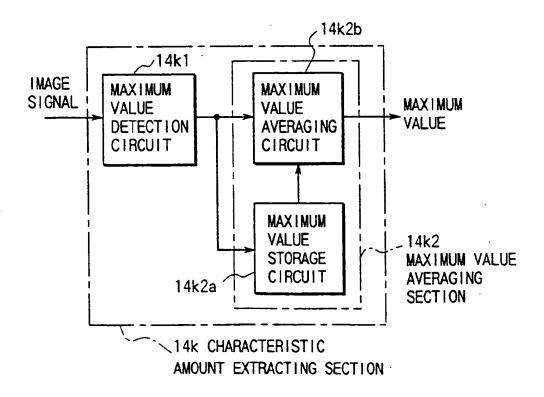
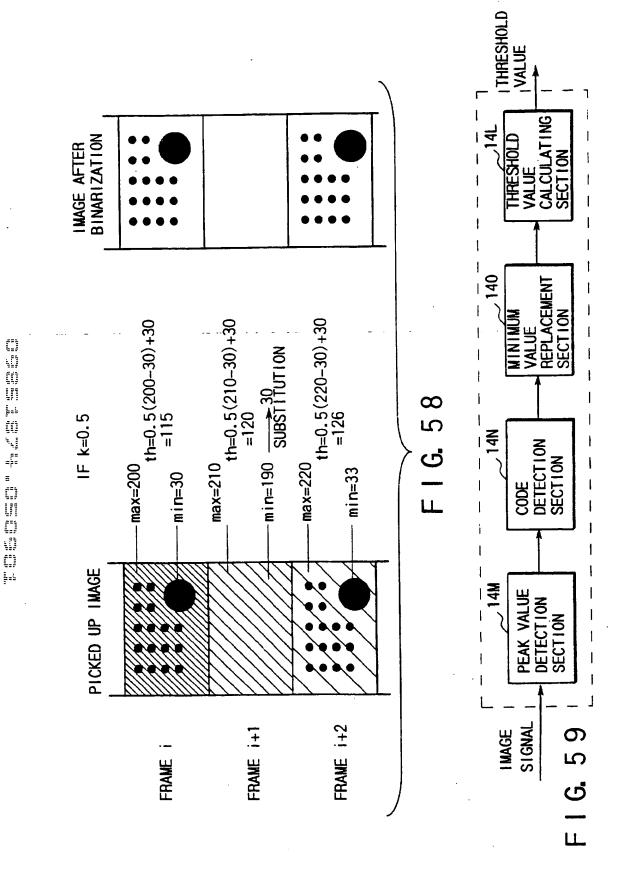


FIG. 57



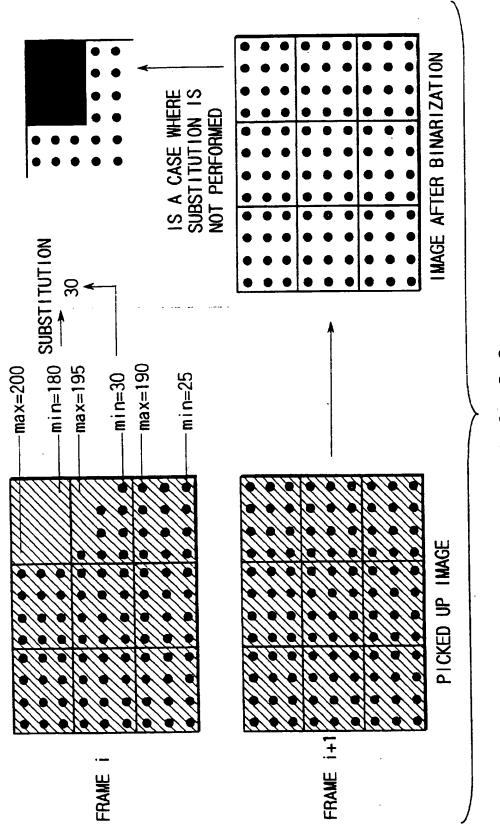


FIG. 60

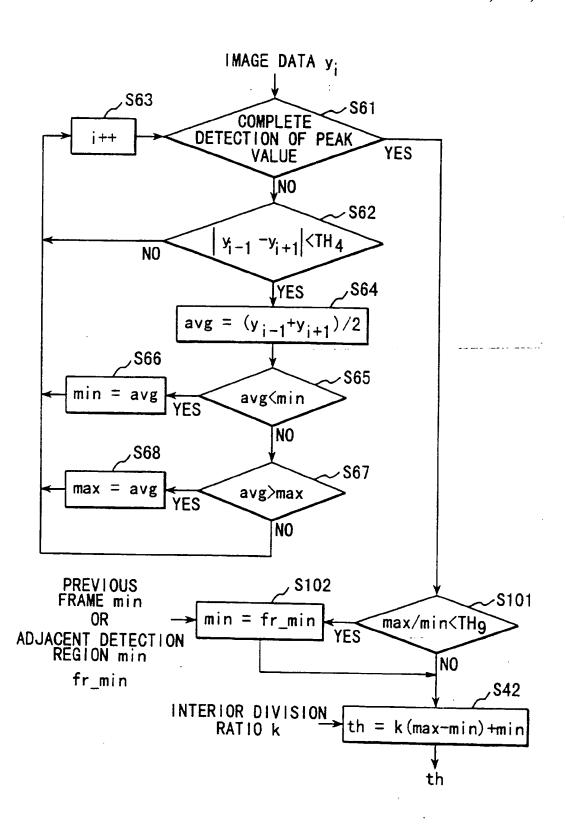
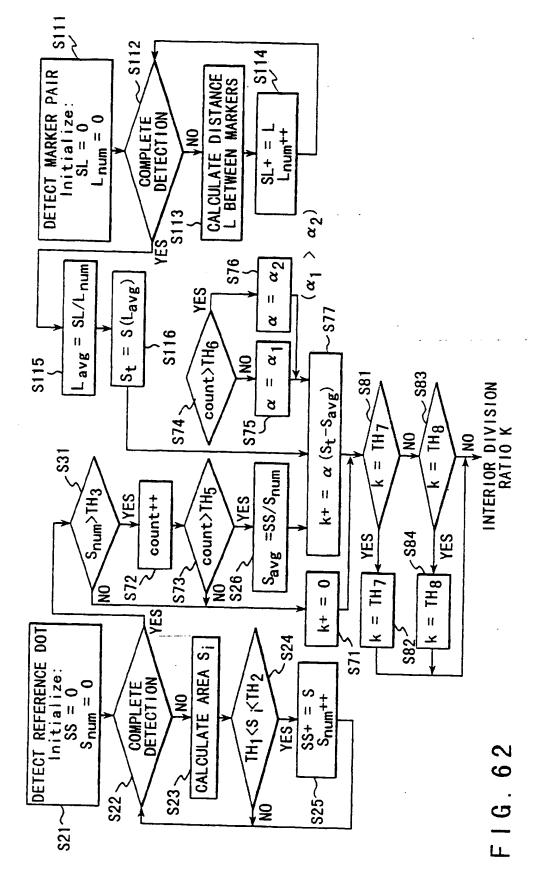


FIG. 61

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Copy provided by PTCS from the PTO APS Image Data Base on 09-15-1999

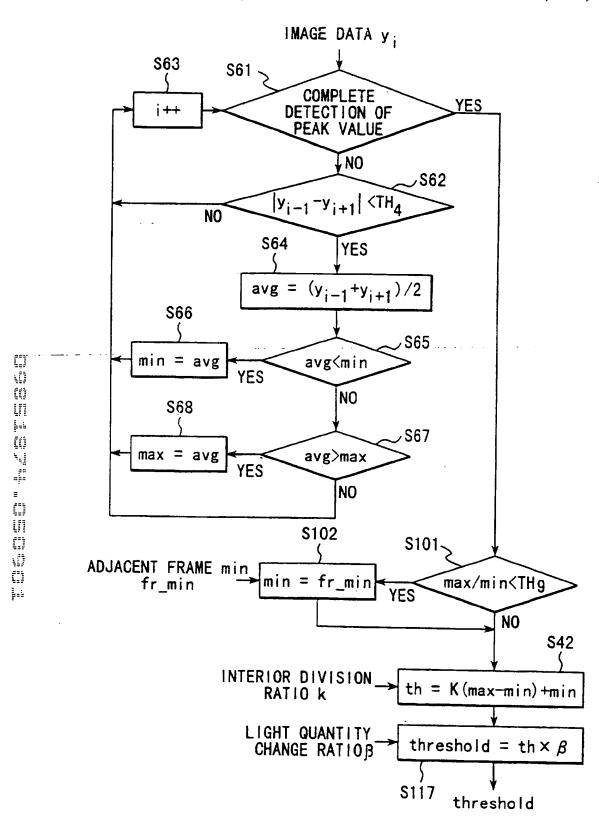


FIG. 63

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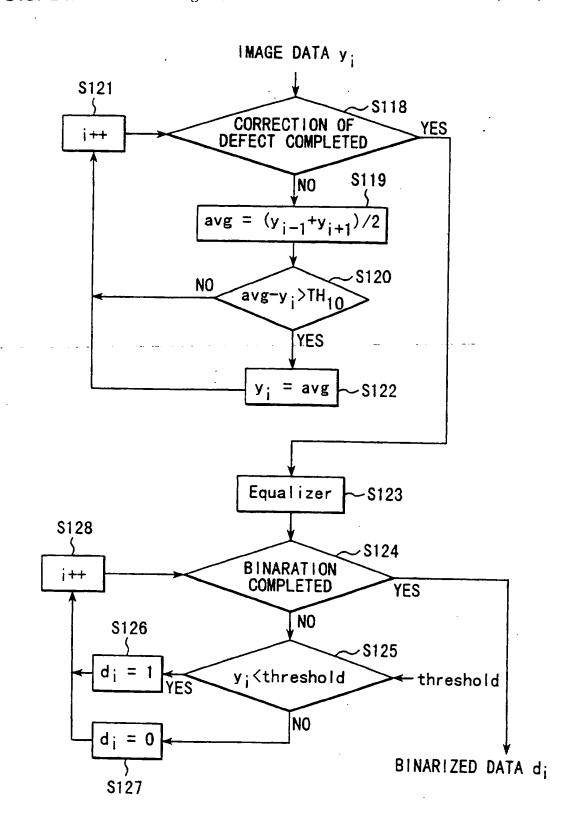
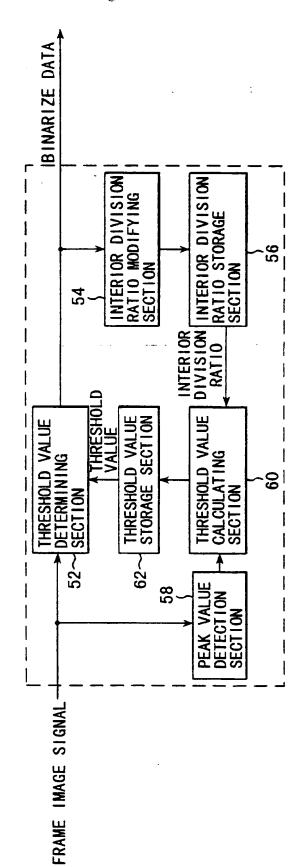
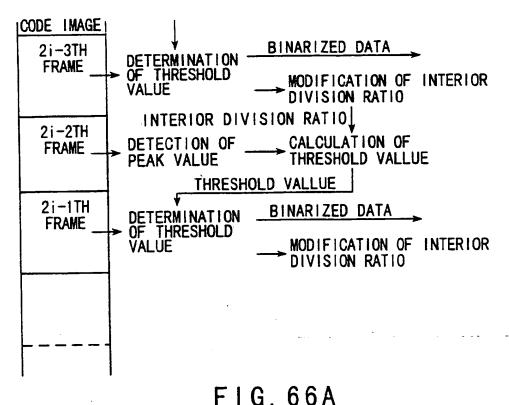


FIG. 64

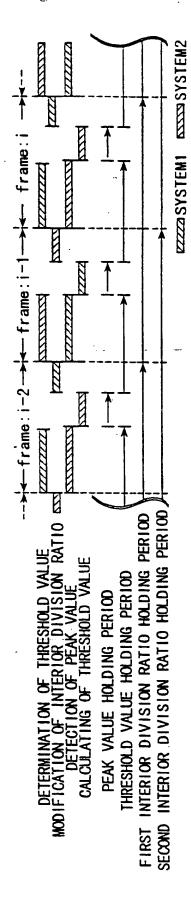
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F1G. 65



ICODE IMAGE BINARIZED DATA 21-2TH DETERMINATION FRAME OF THRESHOLD MODIFICATION OF INTERIOR VALUE DIVISION RATIO INTERIOR DIVISION RATIO 2i-1TH FRAME CALCULATION OF DETECTION OF THRESHOLD VALLUE PEAK VALUE THRESHOLD VALLUE 2iTH BINARIZED DATA DETERMINATION OF THRESHOLD FRAME VALUE MODIFICATION OF INTERIOR DIVISION RATIO FIG. 66B



-16.67

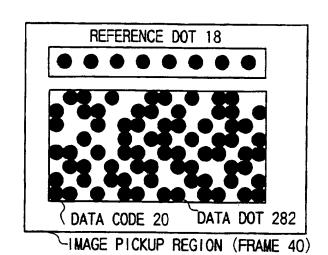
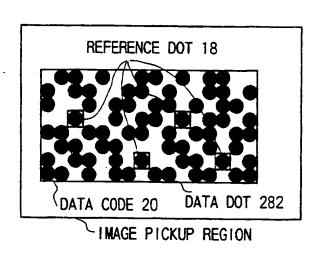


FIG. 68A

FIG. 68B



DATA DOT 282

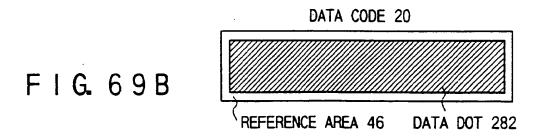
FIG. 69A

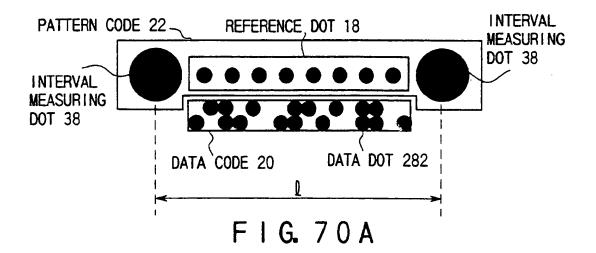
MARKER 174

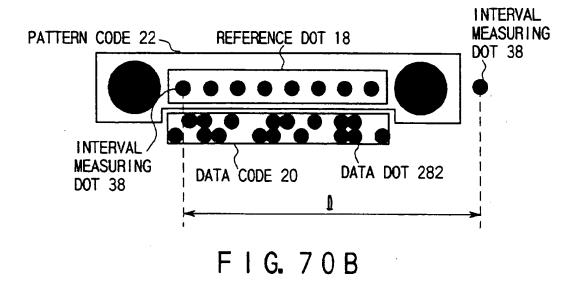
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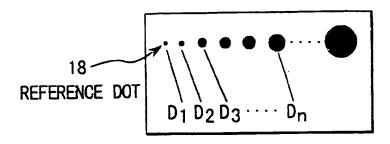


FIG. 71A

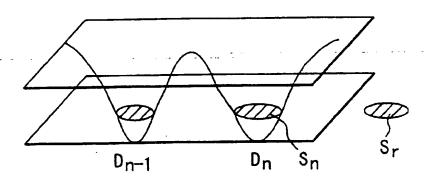
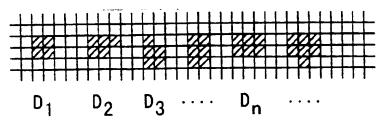


FIG. 71B



MINIMUM PRINTING UNIT (RESOLVING POWER OF PRINTER)

FIG. 74

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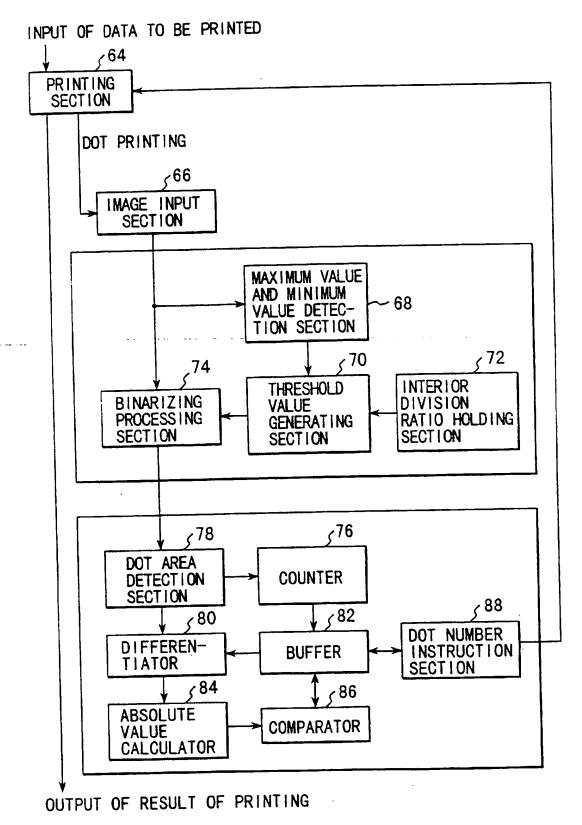
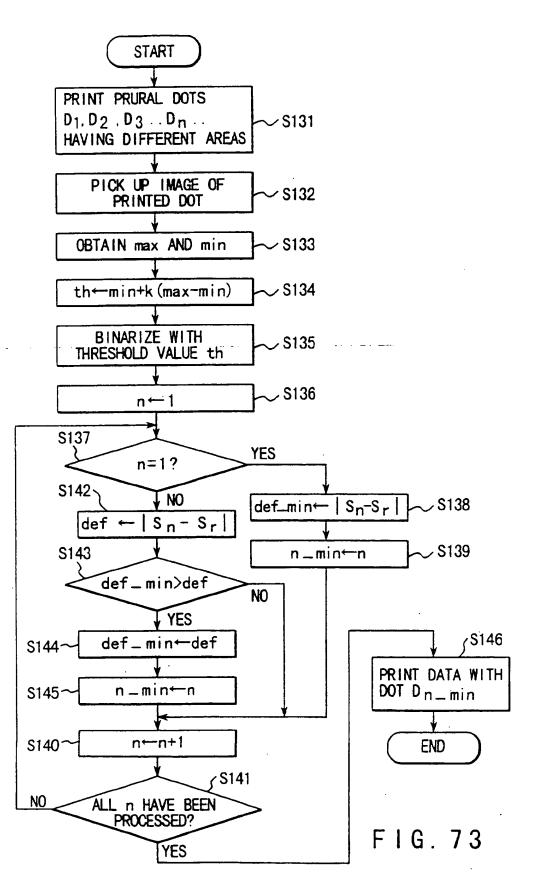


FIG. 72



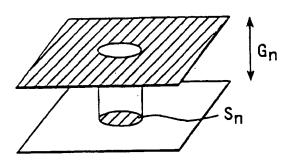
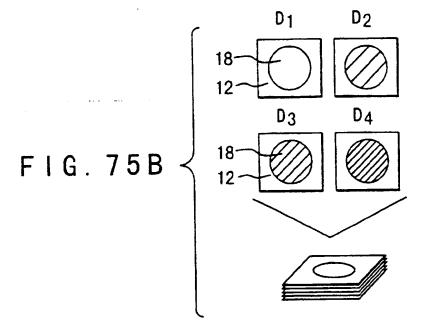


FIG. 75A



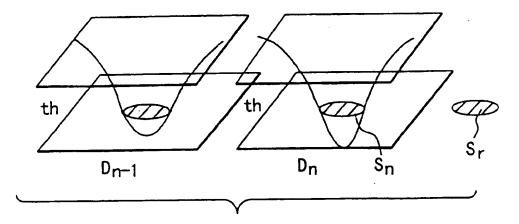
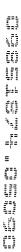


FIG. 750



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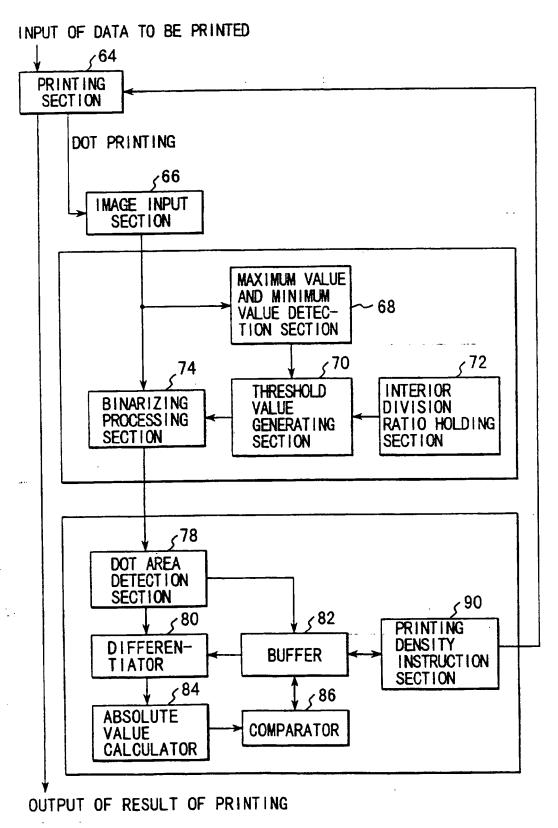
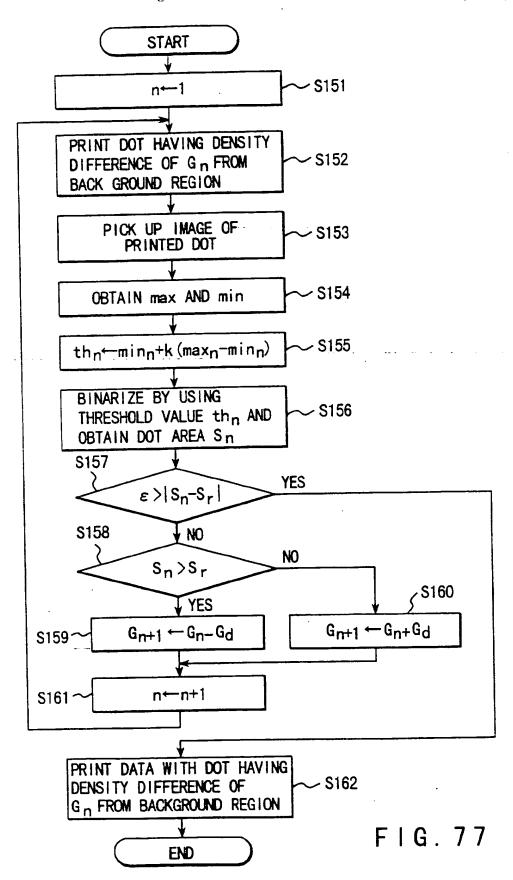


FIG. 76





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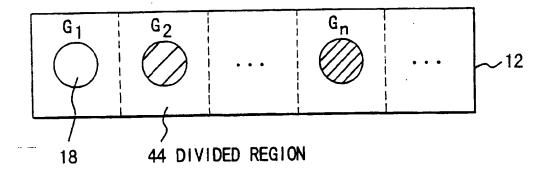


FIG. 78A

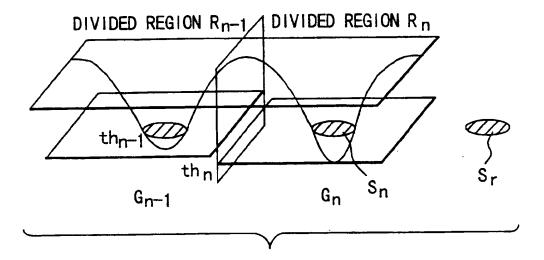


FIG. 78B

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III

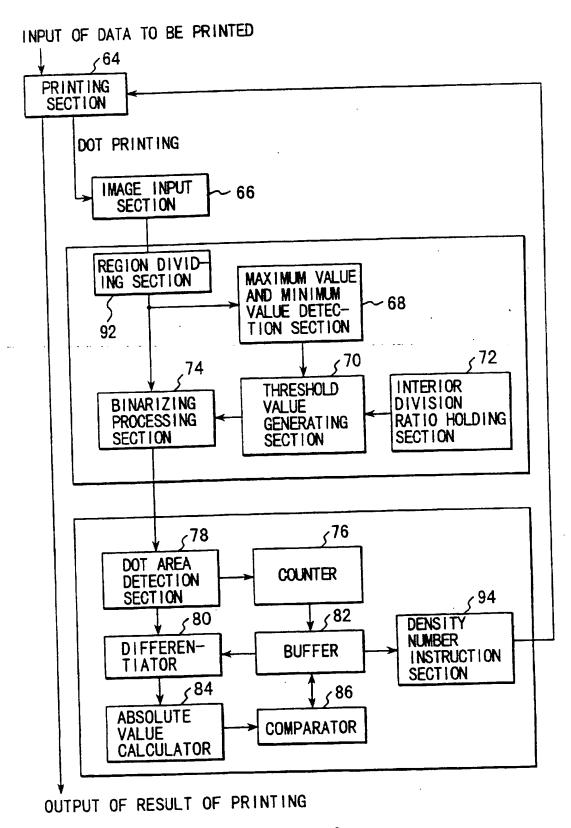
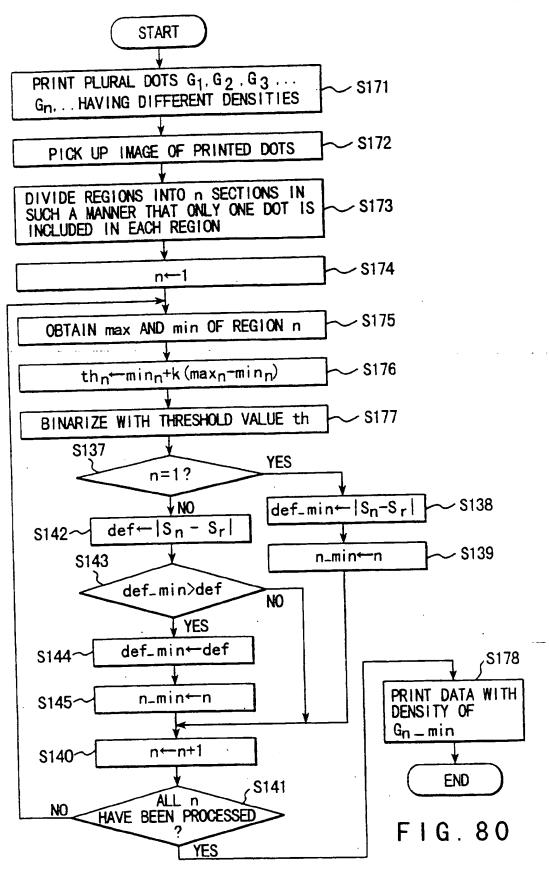


FIG. 79



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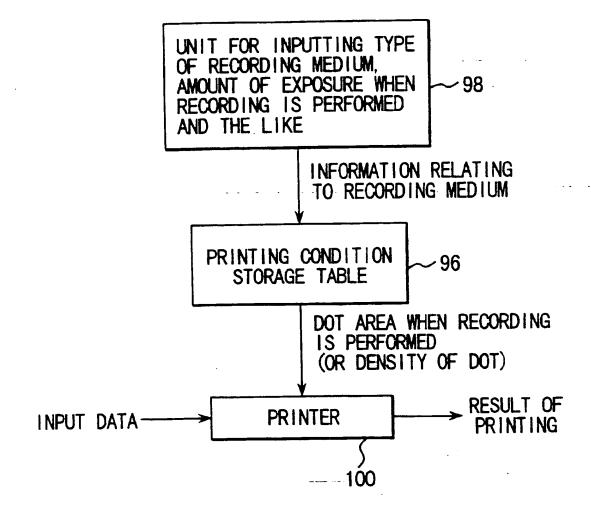


FIG. 81